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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09.940,797	08-29.2001	Hideto Okahara	P 282796 57473-US-KK	4669
909	7590 05 07 2003			
PILLSBURY WINTHROP, LLP P.O. BOX 10500			EXAMINER	
MCLEAN, V			GONZALEZ	Z, JULIO C
			ART UNIT	PAPER NUMBER
			2834	
			DATE MAILED: 05:07-2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
Office Action Summary		09/940,797	OKAHARA ET AL.
		Examiner	Art Unit
		Julio C. Gonzalez	2834
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet w	with the correspondence address
I HE - Exte after - If the - If NC - Failu - Any r	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION.  SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period or reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing of patent term adjustment. See 37 CFR 1 704(b).	36(a). In no event, however, may a y within the statutory minimum of the will apply and will expire SIX (6) MC	a reply be timely filed  nirty (30) days will be considered timely.  DNTHS from the mailing date of this communication.  ARANDONED (35 U.S.O. & 132)
1)	Responsive to communication(s) filed on		
2a)[_		is action is non-final.	
3) <u> </u>	Since this application is in condition for allowationsed in accordance with the practice under on of Claims	ance except for formal ma	atters, prosecution as to the merits is C.D. 11, 453 O.G. 213.
4)⊠	Claim(s) $1-7$ is/are pending in the application.		
	4a) Of the above claim(s) is/are withdraw	vn from consideration.	
	Claim(s) is/are allowed.		
6)🖂	Claim(s) <u>1-3 and 5-7</u> is/are rejected.		
7)	Claim(s) 4 is/are objected to.		
8)[	Claim(s) are subject to restriction and/or	r election requirement.	
Applicati	on Papers	•	
9)[ 7	he specification is objected to by the Examiner	<del>.</del> .	
10)⊠ 7	he drawing(s) filed on 29 August 2001 is/are	a)⊠ accepted or b)□ obje	cted to by the Examiner.
	Applicant may not request that any objection to the		
11)[ 7	he proposed drawing correction filed on		disapproved by the Examiner.
_	If approved, corrected drawings are required in rep		
12)∐ T	he oath or declaration is objected to by the Exa	aminer.	
Priority u	nder 35 U.S.C. §§ 119 and 120		
13)🖂	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C.	§ 119(a)-(d) or (f).
a)[∑	☑ All b) ☐ Some * c) ☐ None of:		
	1. $oxtimes$ Certified copies of the priority documents	have been received.	
:	2. Certified copies of the priority documents	have been received in A	Application No
	B. Copies of the certified copies of the priori application from the International Bur see the attached detailed Office action for a list of	eau (PCT Rule 17.2(a)).	
	cknowledgment is made of a claim for domestic		
a)	☐ The translation of the foreign language proveknowledgment is made of a claim for domestic	visional application has b	een received.
ttachment(		,	
) 🔲 Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>2.3</u>	5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)
Patent and Tra-	lemark Office 04-01) Office Acti		

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#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

  The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention
- 2. Claims 2, 4 and 7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 2, a "specific voltage" is disclosed. What is this "specific voltage"? The voltage of the alternator? Output voltage of the rectifier? What is meant by a "terminal" voltage?

In claim 7, the transistor has a "source" connected to the field coil. Is the same "source" connected to the field coil and to the transistor? Is the same source providing power to the transistor and also delivering power to the field coil? What is the difference between the "source" and the current supply circuit"? Is the "source" the same as the "source voltage"?

# Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 1, 3 and 5-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mashino et al in view of Iwatani et al (US 5,144,220).

Mashino et al discloses a control apparatus for a vehicle having a switching device 11, which is a MOSFET transistor, a flywheel diode 12, a voltage detection circuit and a drive circuit for driving the switching device 11, which can be turn on or off depending on voltage level, thus affecting the excitation of the field coil 2 (see abstract & figure 1).

However, Mashino et al does not disclose explicitly having a field coil in parallel with a diode.

On the other hand, Iwatani et al discloses for the purpose of stabilizing effectively the rotation of the engine, a control apparatus for a vehicle having a field coil 102, a flywheel diode 312, which is connected in parallel with the field coil 302 (see figure 1).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to design a control apparatus as disclosed by Mashino et al and to modify the invention by having a field coil in parallel with a diode for the Application/Control Number: 09/940,797

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purpose of stabilizing effectively the rotation of the engine as disclosed by Iwatani et al.

## Allowable Subject Matter

- 5. Claim 4 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 6. Claim 2 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Julio C. Gonzalez whose telephone number is (703) 305-1563. The examiner can normally be reached on M-F (8AM-5PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on (703) 308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Ju - M.

Jcg

April 28, 2003